



FIG. 1
PRIOR ART

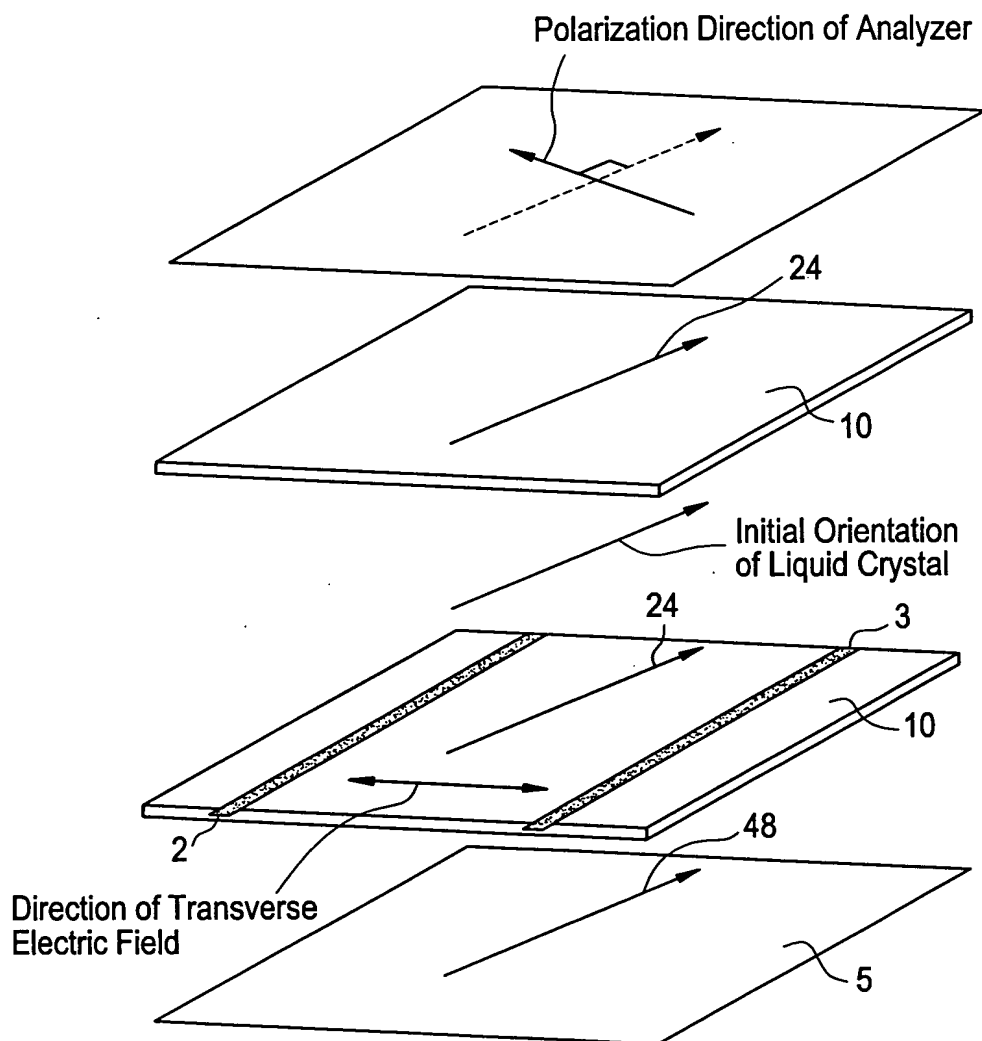




FIG. 2a
PRIOR ART

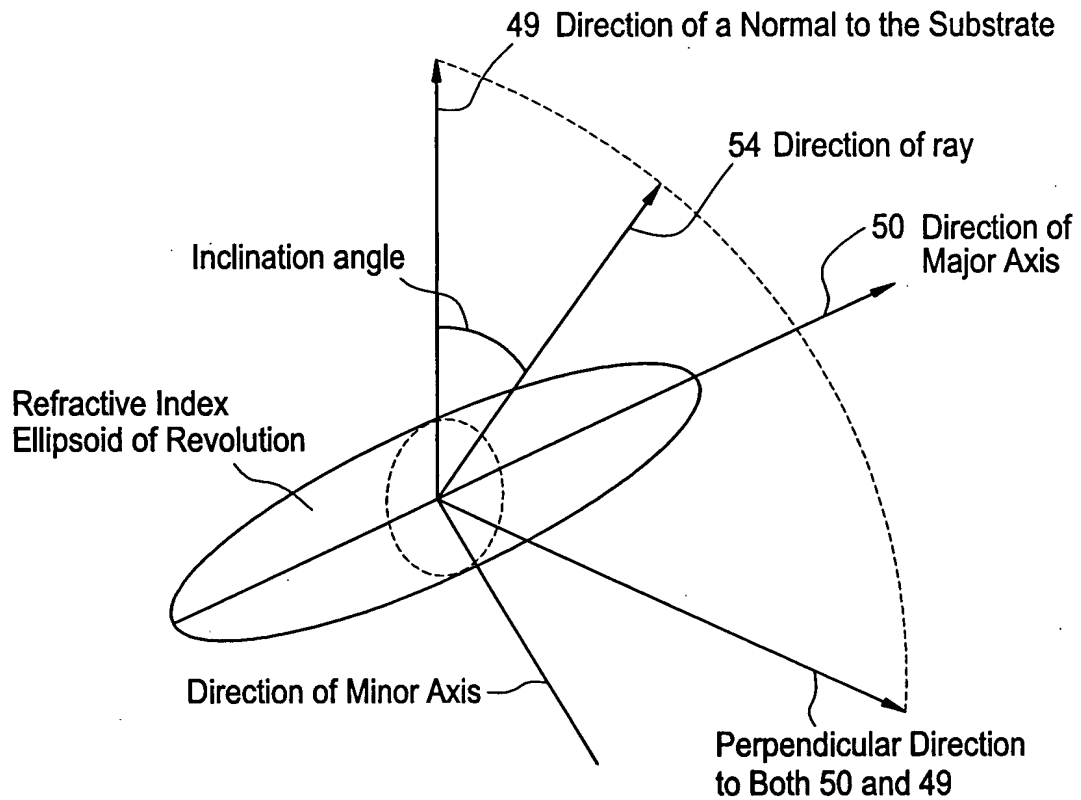
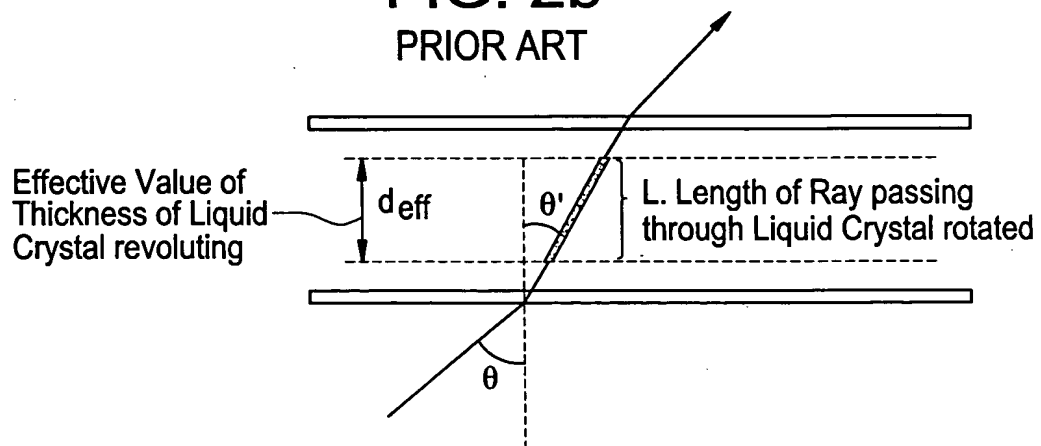
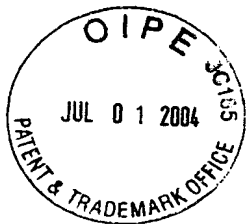


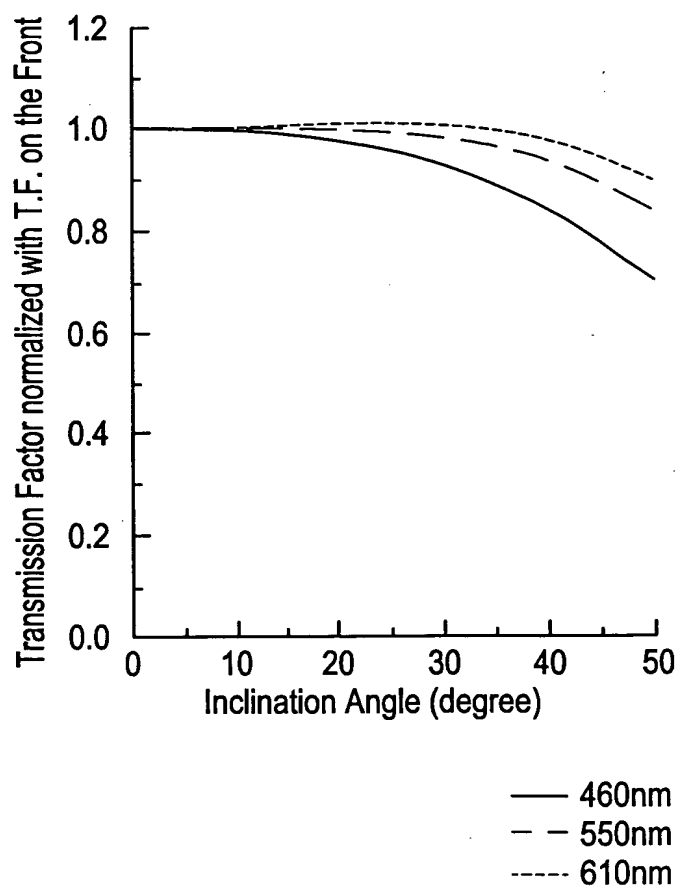
FIG. 2b
PRIOR ART





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FIG. 3
PRIOR ART



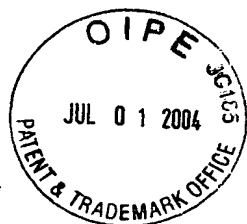
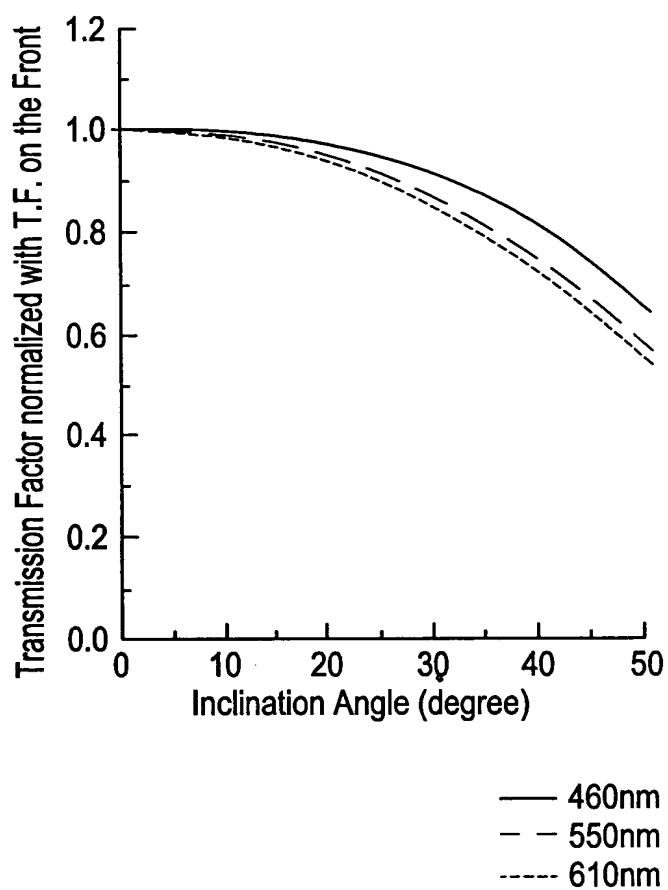


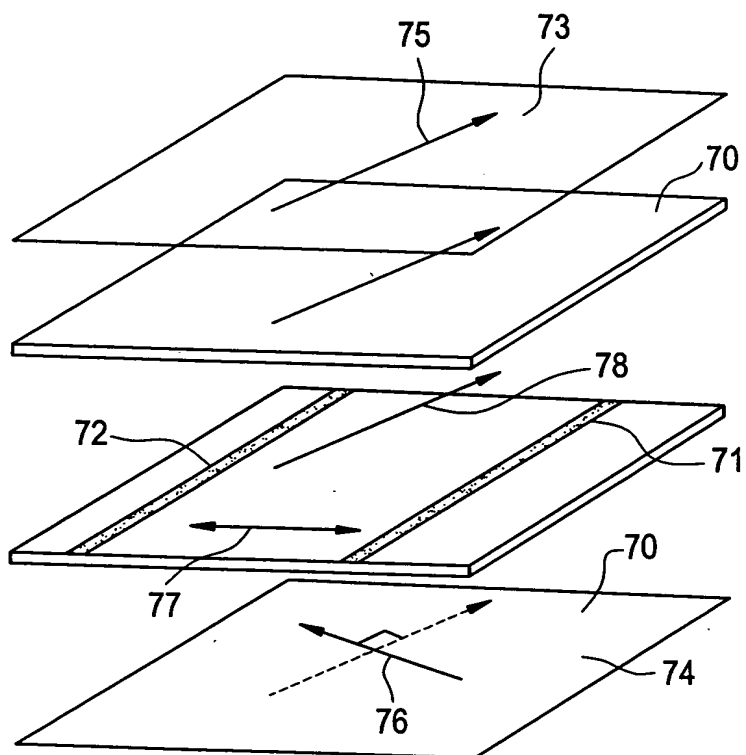
FIG. 4
PRIOR ART

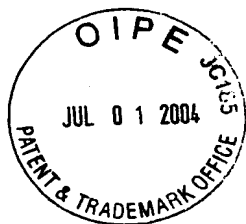




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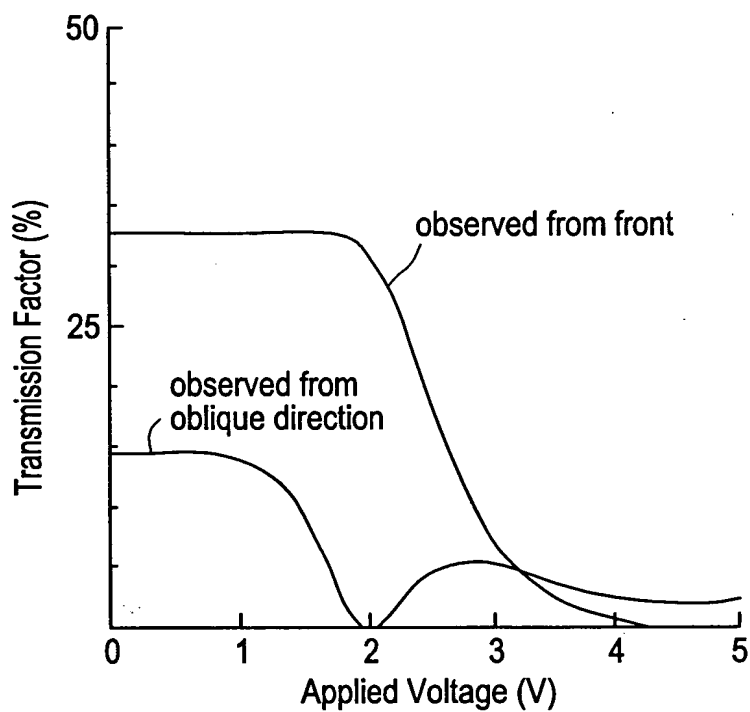
FIG. 5
PRIOR ART

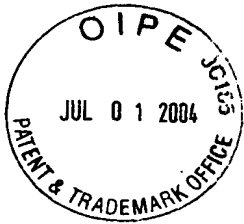




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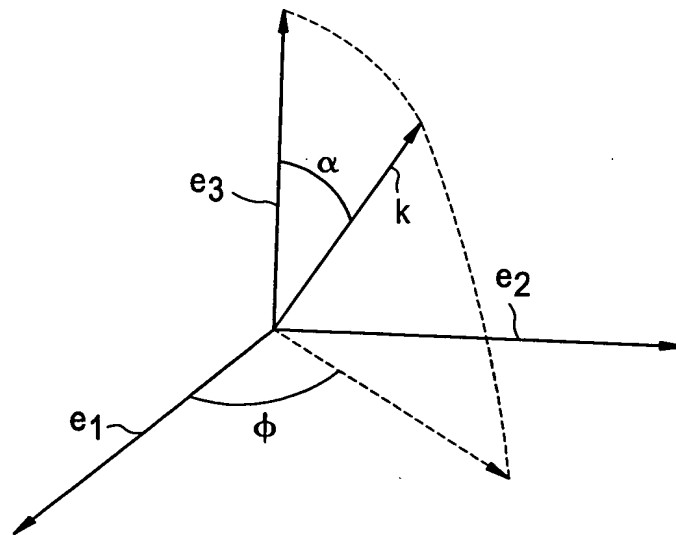
FIG. 6
PRIOR ART





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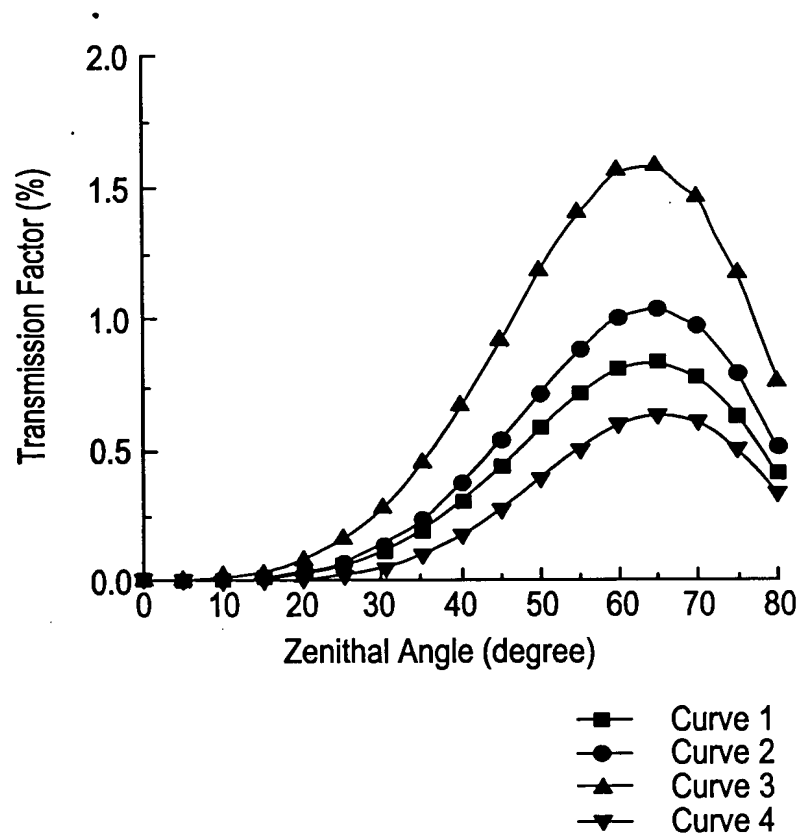
FIG. 7
PRIOR ART

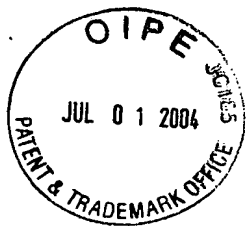




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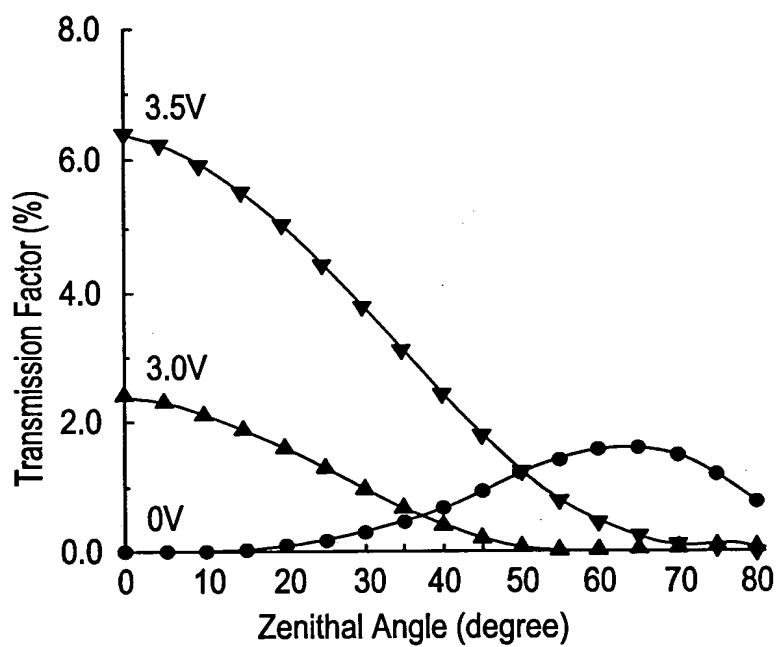
FIG. 8
PRIOR ART





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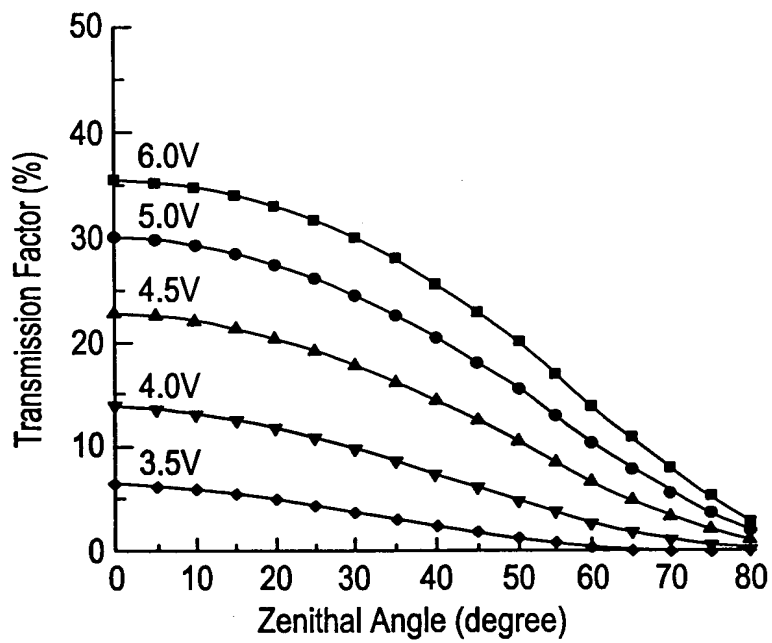
FIG. 9
PRIOR ART





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FIG. 10
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FIG. 11a

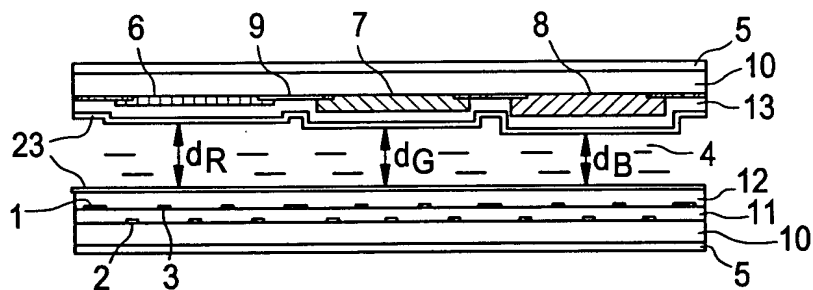
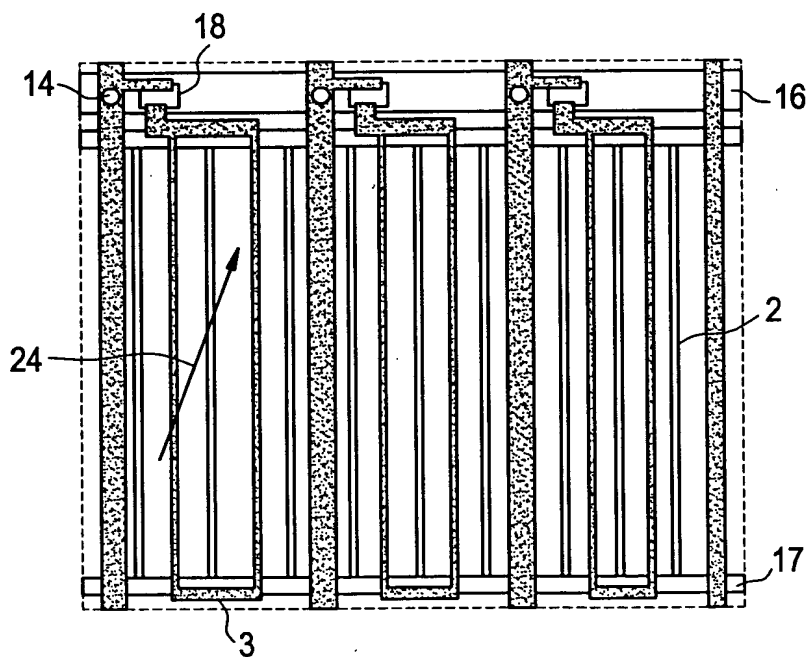


FIG. 11b





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FIG. 12a

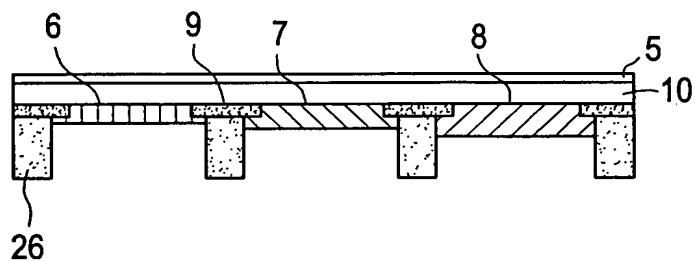


FIG. 12b

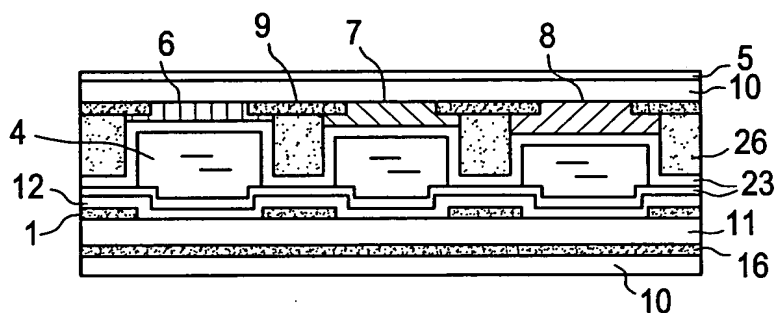


FIG. 12c

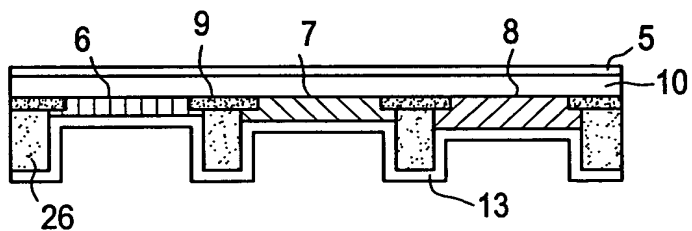
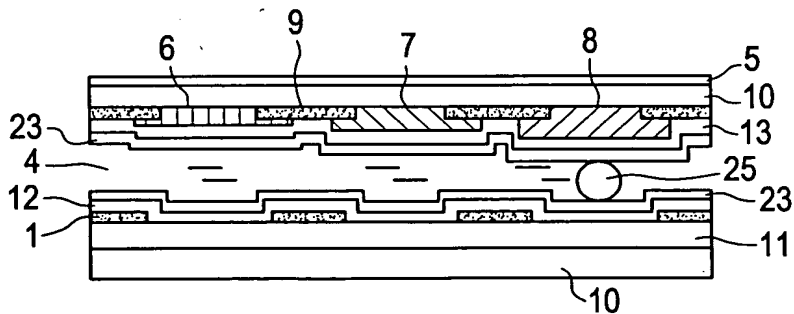
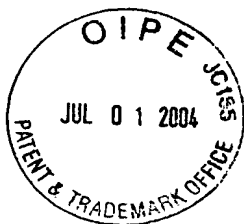


FIG. 12d



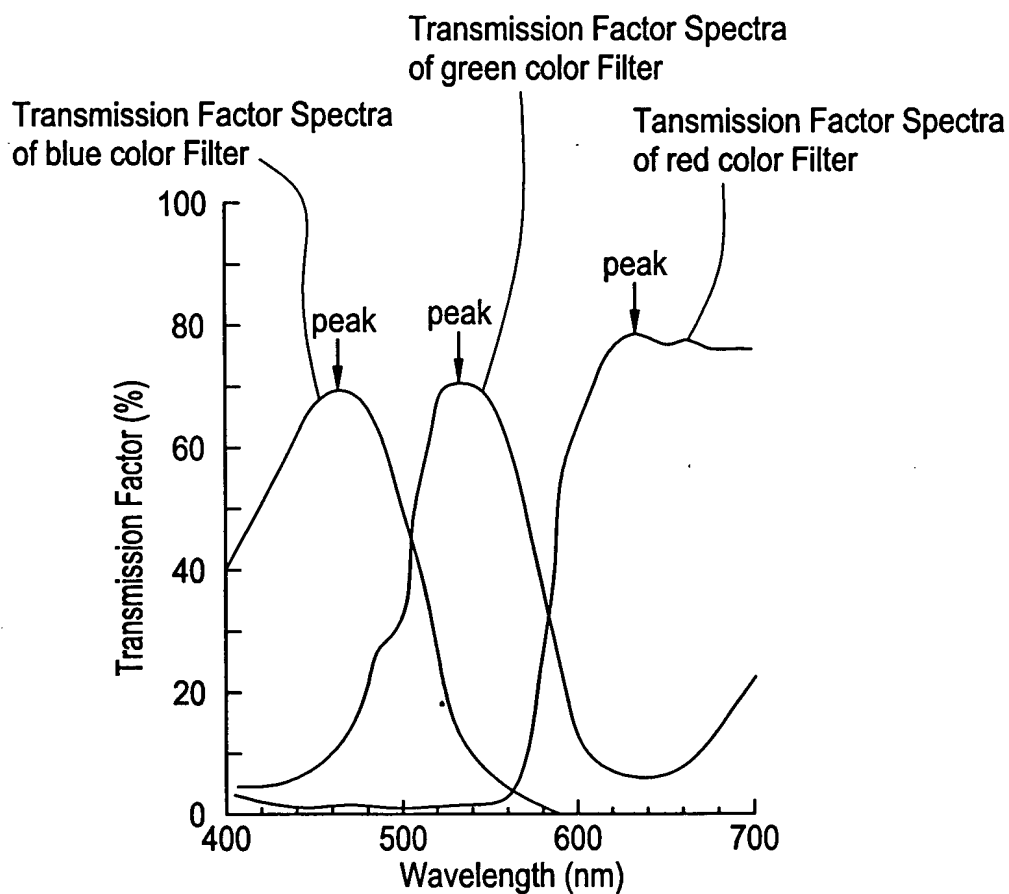
This diagram shows a cross-sectional view of a multi-layered optical device. It consists of a top substrate (5) and a bottom substrate (5). Between them are three distinct regions labeled dR , dG , and dB , which correspond to red, green, and blue light emission or filtering layers. Each region contains a series of small, rectangular elements (1, 2, 3) embedded within a matrix (4). The top substrate (5) has a series of rectangular features (6, 7, 8) on its surface, which are aligned with the regions below. A central layer (9) is also present. The bottom substrate (5) has a series of rectangular features (10, 11, 12) on its surface. The entire device is shown in a cross-sectional view, with the layers and features labeled with numbers 1 through 13.

Fig. 1 is a cross-sectional view of a multi-lane assay plate. The plate has a base 16 and a top cover 17. It contains three vertical lanes, each with a sample well 18, a reagent well 19, and a detection well 20. A central channel 21 separates the lanes. A central support structure 22 is located in the middle of the plate. A label 24 points to the side wall of the first lane.



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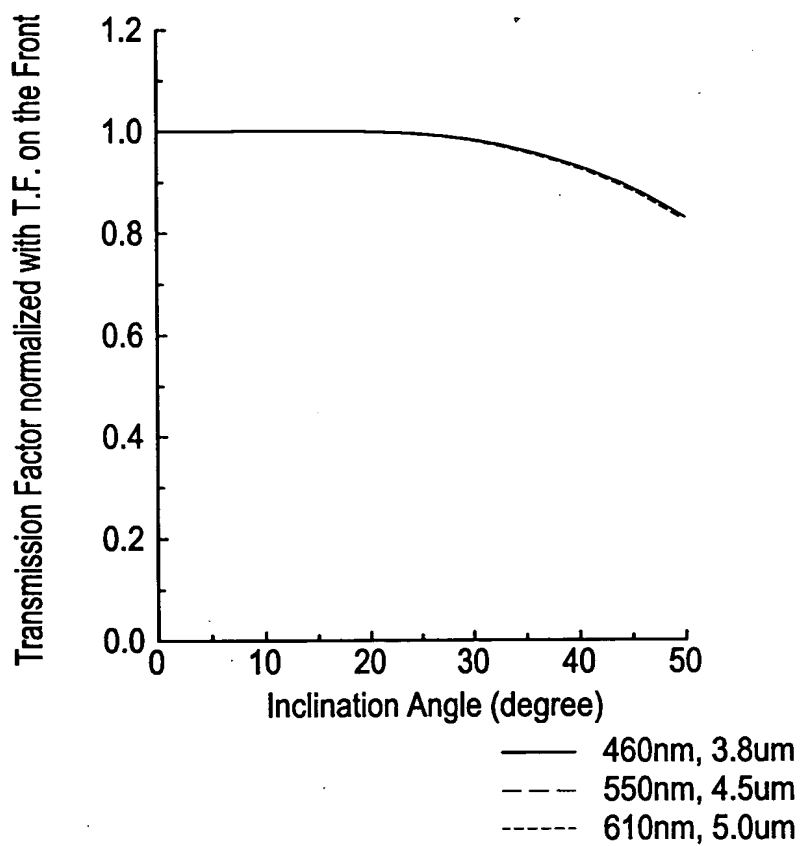
FIG. 14





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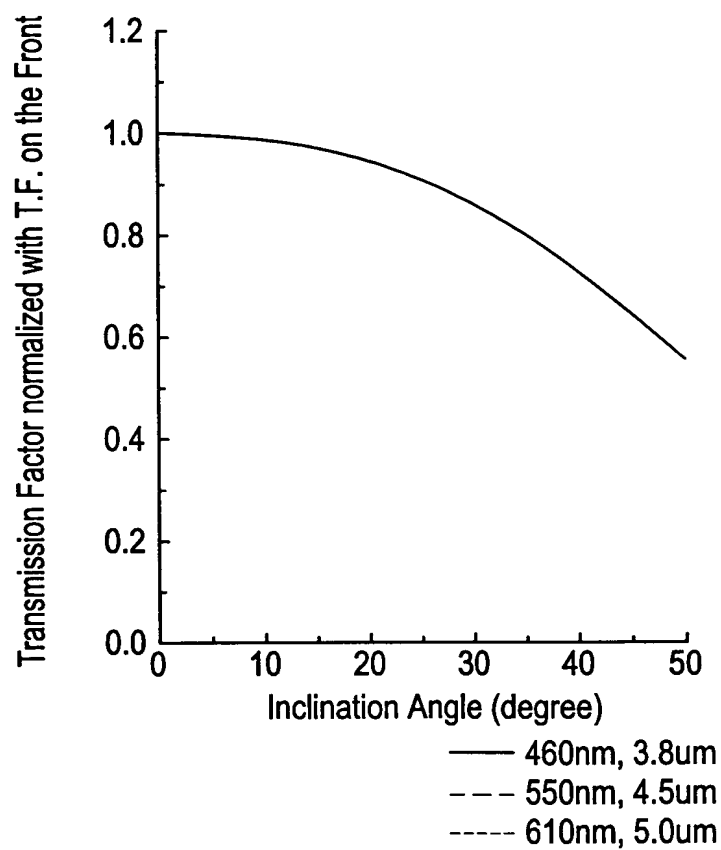
FIG. 15

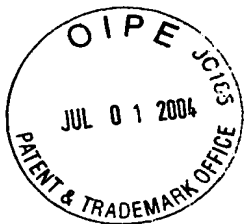




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FIG. 16





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FIG. 17

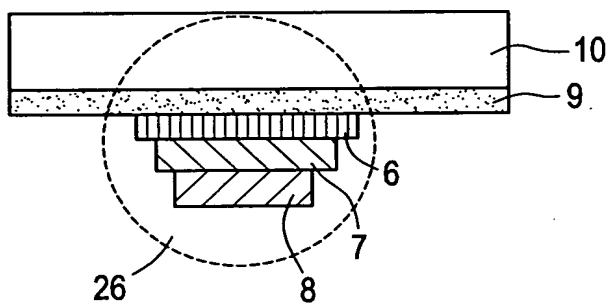


FIG. 18

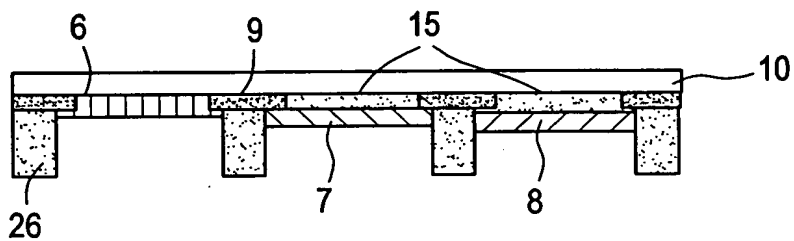
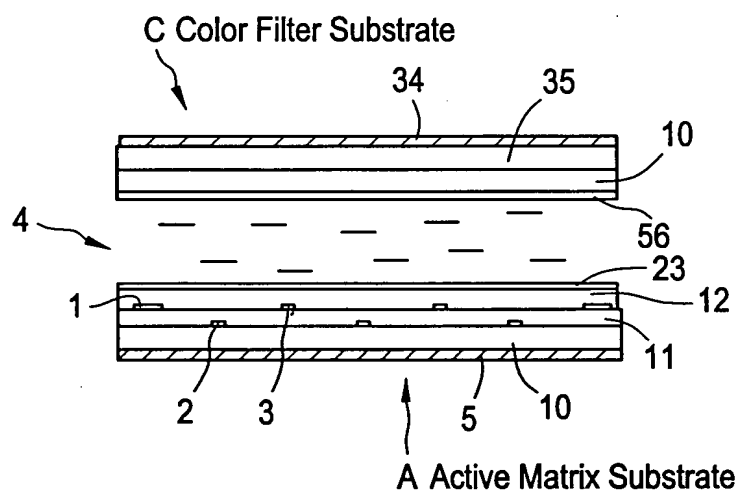




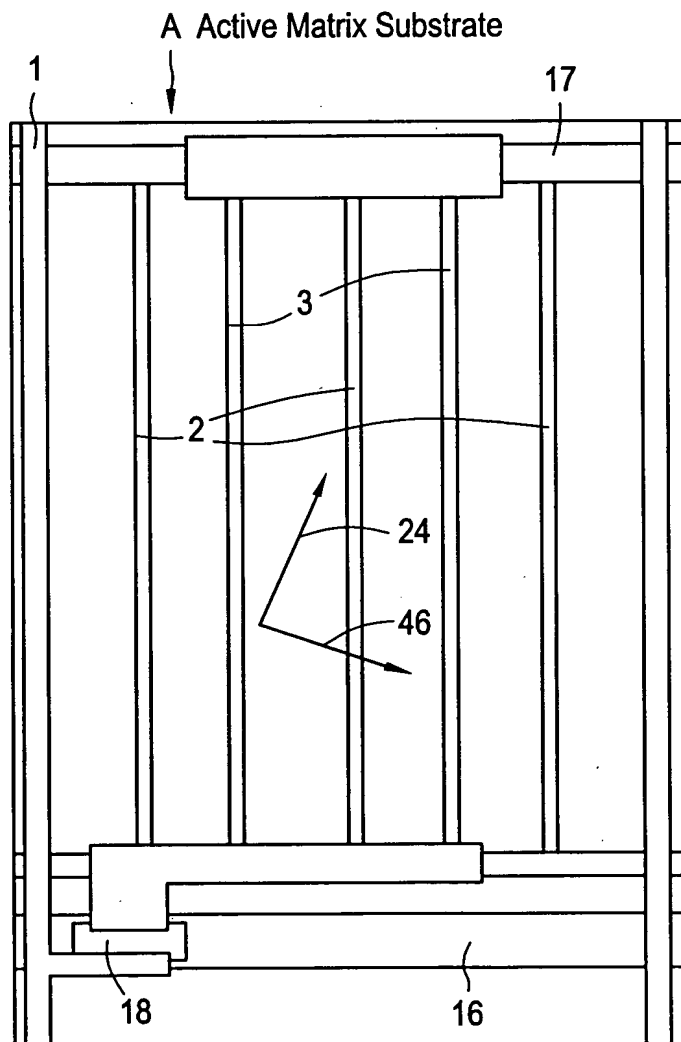
FIG. 19

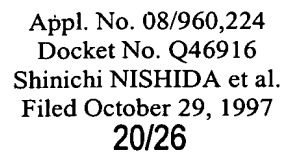




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FIG. 20







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FIG. 22

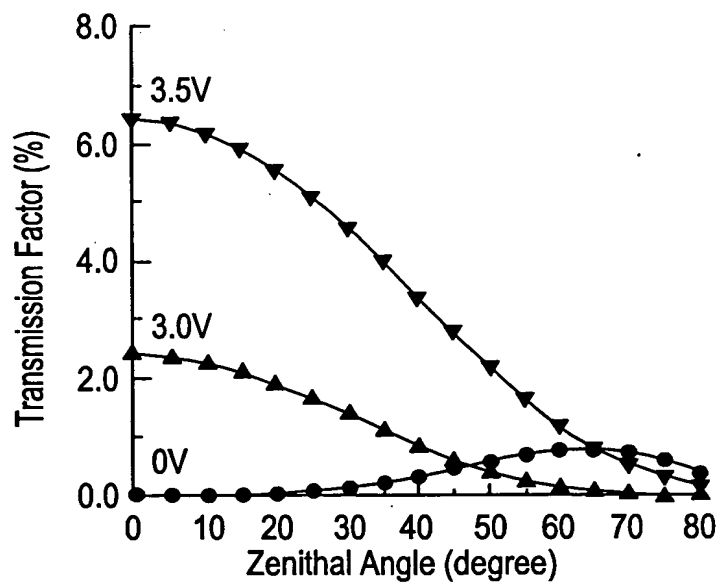
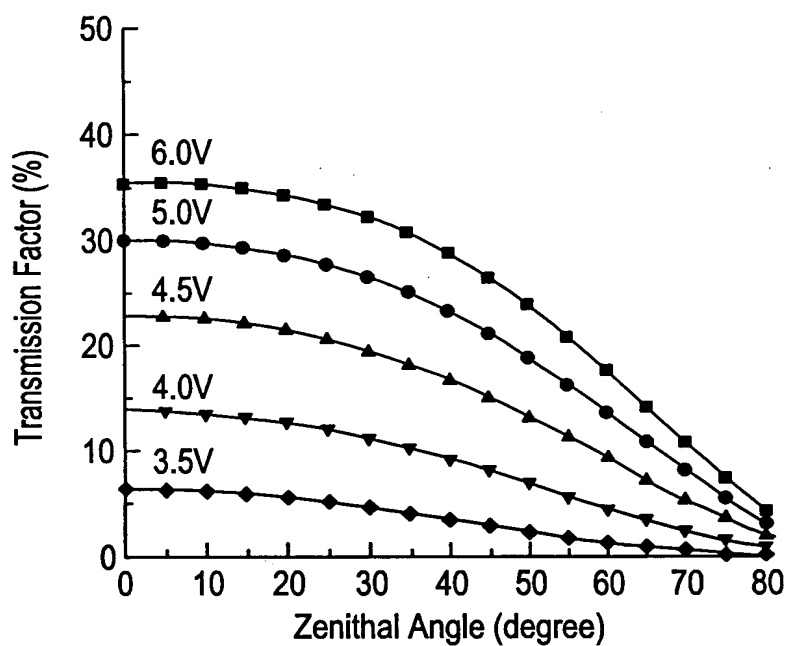




FIG. 23



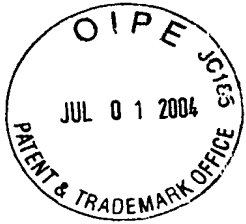


FIG. 24

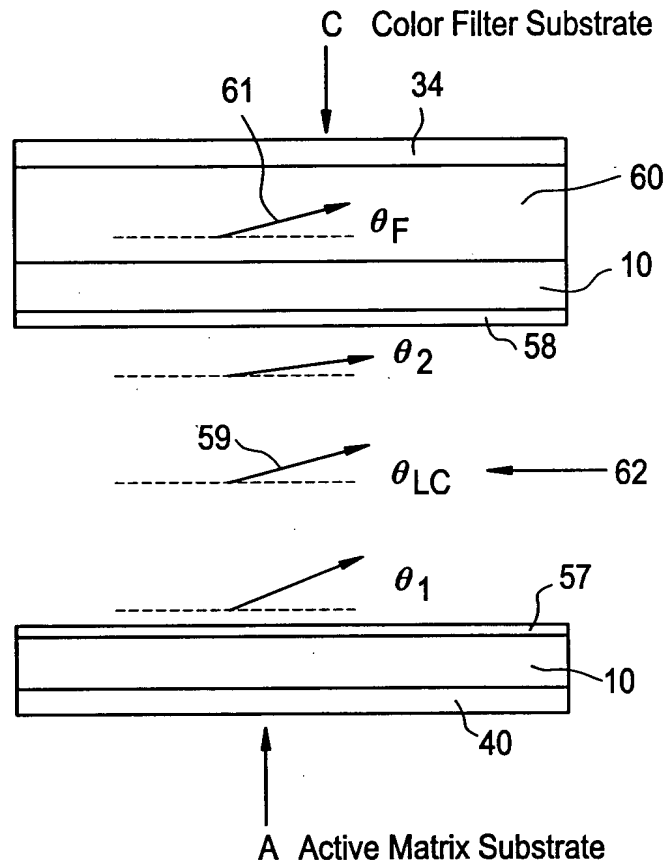
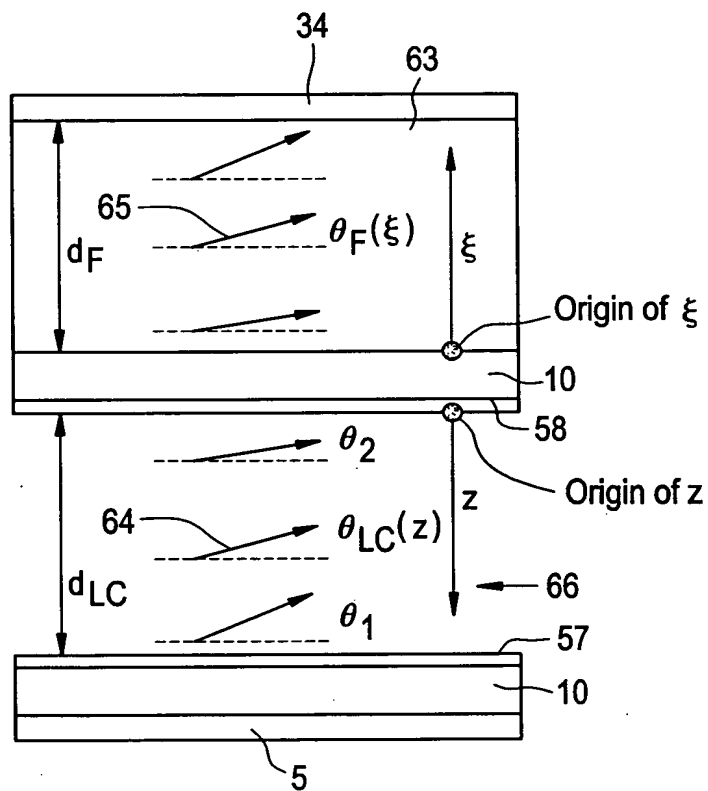
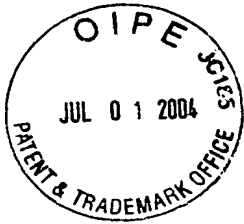




FIG. 25





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FIG. 26

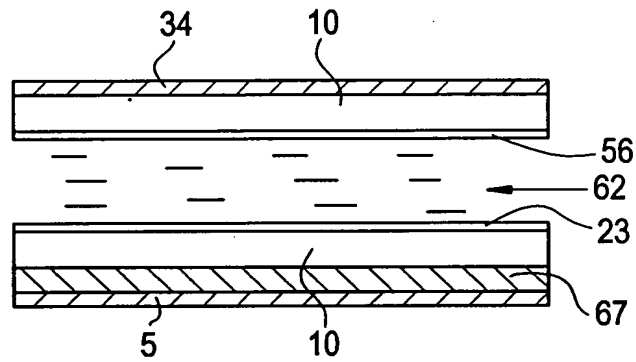




FIG. 27

